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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 23160	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/US95/13296	International filing date (day/month/year) 17 OCTOBER 1995	Priority date (day/month/year) 18 OCTOBER 1994
International Patent Classification (IPC) or national classification and IPC IPC(6): G06K 9/00 and US Cl.: 382/232, 237, 238, 239, 244, 245, 246, 247, 248		
Applicant RAMOT UNIVERSITY AUTHORITY FOR APPLIED RESEARCH & INDUSTRIAL DEVELOPMENT LTD.		

<p>1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of <u>4</u> sheets.</p> <p><input type="checkbox"/> This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority. (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).</p> <p>These annexes consist of a total of <u>0</u> sheets.</p>
<p>3. This report contains indications relating to the following items:</p> <p>I <input checked="" type="checkbox"/> Basis of the report</p> <p>II <input type="checkbox"/> Priority</p> <p>III <input checked="" type="checkbox"/> Non-establishment of report with regard to novelty, inventive step or industrial applicability</p> <p>IV <input type="checkbox"/> Lack of unity of invention</p> <p>V <input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p>VI <input type="checkbox"/> Certain documents cited</p> <p>VII <input type="checkbox"/> Certain defects in the international application</p> <p>VIII <input type="checkbox"/> Certain observations on the international application</p>

Date of submission of the demand 13 MAY 1996	Date of completion of this report 21 APRIL 1997
Name and mailing address of the IPEA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231	Authorized officer LEO BOUDREAU
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International Application No.

PCT/US95/13296

I. Basis of the report

1. This report has been drawn on the basis of *(Substantive sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments):*

- ☒ the international application as originally filed.
- ☒ the description, pages 1-44 , as originally filed.
 pages NONE , filed with the demand.
 pages NONE , filed with the letter of _____.
 pages _____ , filed with the letter of _____.
- ☒ the claims, Nos. 1-15 , as originally filed.
 Nos. NONE , as amended under Article 19.
 Nos. NONE , filed with the demand.
 Nos. NONE , filed with the letter of _____.
 Nos. _____ , filed with the letter of _____.
- ☒ the drawings, sheets/fig 1-2 , as originally filed.
 sheets/fig NONE , filed with the demand.
 sheets/fig NONE , filed with the letter of _____.
 sheets/fig _____ , filed with the letter of _____.

2. The amendments have resulted in the cancellation of:

- ☒ the description, pages NONE .
- ☒ the claims, Nos. NONE .
- ☒ the drawings, sheets/fig NONE .

3. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box Additional observations below (Rule 70.2(c)).

4. Additional observations, if necessary:

NONE

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International Application No.
PCT/US95/13296

III. Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

The question whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be industrially applicable have not been and will not be examined in respect of:

☐ the entire international application.

☒ claims Nos. 5-9, 14-15

because:

☐ the said international application, or the said claim Nos. _ relate to the following subject matter which does not require international preliminary examination (*specify*).

☒ the description, claims or drawings (*indicate particular elements below*) or said claims Nos. 5-9, 14-15 are so unclear that no meaningful opinion could be formed (*specify*).

Because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4 (a). They are improper multiple dependent claims.

☐ the claims, or said claims Nos. _ are so inadequately supported by the description that no meaningful opinion could be formed.

☒ no international search report has been established for said claims Nos. 5-9, 14-15.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International Publication No.

PCT/US95/13296

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**1. STATEMENT**

Novelty (N)	Claims	<u>NONE</u>	YES
	Claims	<u>1-4, 10-13</u>	NO
Inventive Step (IS)	Claims	<u>NONE</u>	YES
	Claims	<u>1-4, 10-13</u>	NO
Industrial Applicability (IA)	Claims	<u>1-4, 10-13</u>	YES
	Claims	<u>NONE</u>	NO

2. CITATIONS AND EXPLANATIONS

1- Claims 1-4, 10-13 lack novelty under PCT Article 33(2) as being anticipated by Mitchell et al. Mitchell et al. teaches a method of compressing binarized images, receiving image, generating sequences, encoding a portion, accumulating the frequency, modified Huffman coding, modified read coding, run-length encoder, adaptive encoder, and sequence of code symbols (see abstract, column 2, lines 4-14, column 2, lines 44-63, column 3, lines 21-65, column 4, lines 1-63, and column 5, lines 15-68).

2- Claims 1-4, 10-13 lack inventive step under PCT Article 33(3) for the same reasons given above in item 1.

3- Claims 1-4, 10-13 meet the criteria set out in PCT Article 33(4), because compressing image is useful in image storage and transmission.

4- The other references which were previously cited are Taniguchi et al., Aono et al., and Golin et al. These references teach features similar to those stated in unsearchable claims 5-9 and 14-15. However, since the claims 5-9 and 14-15 are still unsearchable, there is no need to use these references. For requirements of the remaining claims (claims 1-4 and 10-13), only the main reference (Mitchell et al.) has been used. Mitchell et al., by itself, teaches all of the features of claims 1-4 and 10-13.

____ NEW CITATIONS _____

NONE